

User Manual

20PT9007D



Thank you for choosing Philips.

Need help fast?

Read your Quick Use Guide and/or Owner's Manual first for quick tips that make using your Philips product more enjoyable.

If you have read your instructions and still need assistance, you may access our online help at
www.usasupport.philips.com

or call

1-888-PHILIPS(744-5477)

***while with your product
(and Model / Serial number)***

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

PHILIPS

Return your Product Registration card today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits of Product Ownership

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.



PHILIPS

***Congratulations on your purchase,
and welcome to the "family!"***

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family", you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

**P.S. To get the most from your PHILIPS purchase,
be sure to complete and return your Product
Registration Card at once.**

Know these safety Symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la bome correspondante de la prise et pousser jusqu'au fond.

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Visit our World Wide Web Site at <http://www.usasupport.philips.com>

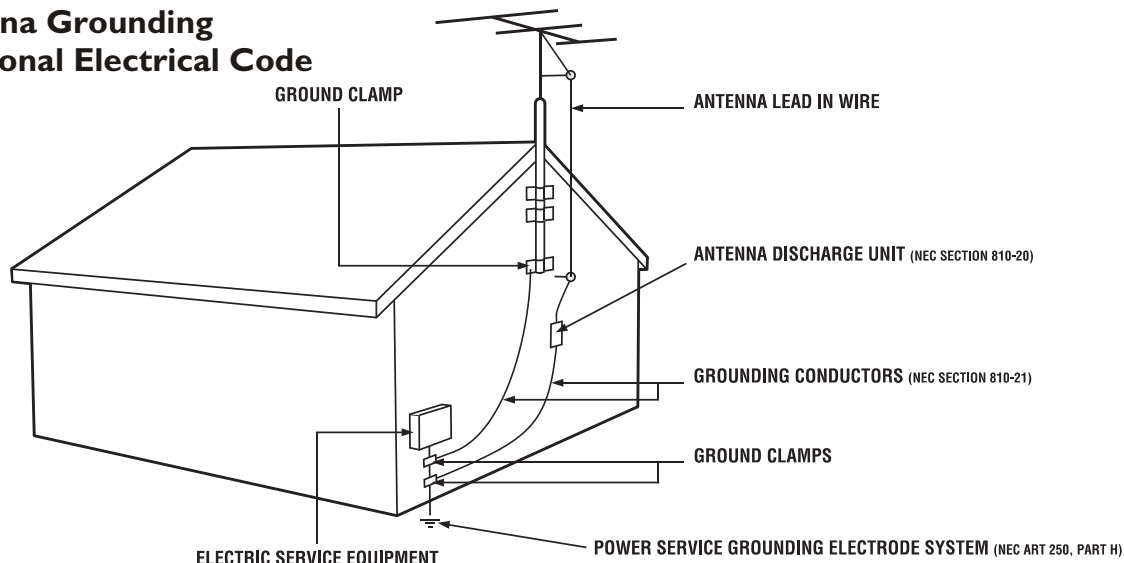
IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the TV. When a cart is used, use caution when moving the cart/TV combination to avoid injury from tip-over.
13. Unplug this TV during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the TV has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the TV, the TV has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The TV should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the TV; or
 - C. The TV has been exposed to rain; or
- D. The TV does not appear to operate normally or exhibits a marked change in performance; or
- E. The TV has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The TV should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
 - a) **Warning:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electrical Code



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FEATURES

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Differences in volume levels during commercial breaks are reduced, making for a more consistent, comfortable sound for your listening pleasure (Pg. 14).

Auto Picture lets you change the picture settings (color, tint, contrast, etc.) for various types of programming, such as Personal, Weak Signal, Sports, Movies or Multimedia (games) with the push of one button (Pg. 16).

Update Clock makes the clock of the TV be consistent with the time extracted from the current channel in Digital mode. (Pg. 23).

Parental Control lets you block programs from viewing with content not suitable for children or with restricted TV ratings (Pg. 18-22).

Channel Edit & Name Lets you skip or unskip channels from the selection cycle with **CH+/CH-**. Also, Channel Edit allows you to give a name to a certain channel (Pg. 12).

Closed Caption allows you to read TV program dialogue or voice conversations as onscreen text. (Pg. 24).

Digital Audio allows you to switch to another audio language when it is available. This is only for programs that are shown in more than one audio language (Pg. 14).

Sleep Timer automatically turns OFF the TV after a set amount of time that you have chosen (Pg. 25).

Auto Off turns the TV off automatically when no signal has been received for 15 minutes. "TV Switching Off" will appear during the last minute before the TV switches off. If there is any operation done during the last minute, the Auto Off will be cancelled and will reinitialize the countdown to 15 minutes again.



As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.



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A GUIDE TO DIGITAL TV

What is Digital Television (DTV)?

Digital Television (DTV) is a relatively new type of broadcasting that promises to transform television viewing into a whole new experience. Digital technology is used to capture images and sound to deliver a better picture quality.

There are many levels of digital television quality. The most common are:

Standard Definition TV (SDTV)

SDTV is the basic level of quality display and resolution for both analog and digital. Transmission of SDTV can be in the traditional (4:3) or widescreen (16:9) format.

Enhanced Definition TV (EDTV)

EDTV is better in picture quality than analog television. The formats for EDTV are 480p widescreen (16:9) or traditional (4:3). EDTV is in the middle range quality between SDTV and HDTV.

High Definition TV (HDTV)

HDTV has the highest quality for digital broadcast formats. Its resolution is widescreen format (16:9). Combined with digitally enhanced sound technology, HDTV sets new standards for sound and picture quality in television.

Difference between Digital and Analog?

Digital Television is a more flexible and efficient technology than the analog broadcast system. Analog broadcasts can only provide one program at a time. Digital television can broadcast a high definition program or more than one standard definition program at the same time. With Digital television you can receive information of programs through the Information Banner. This information is provided by the broadcaster.

QUICK TIPS BEFORE YOU START

- 1 When the TV is powered on for the first time you will be prompted to auto install the TV in order to receive the channels that are broadcasted locally.
- 2 Auto installation may take **20** to **40** minutes depending on the number of channels that are transmitted by the cable provider or broadcaster.
- 3 When the TV is not receiving any signal from the antenna / cable, **NO SIGNAL** will appear on the TV screen. This can be caused by the antenna /cable not being plugged in correctly or when the wrong tuner mode is selected.
When no transmission is received from the broadcaster, **NO PROGRAM** will appear on the TV screen.
When in Digital Mode an "audio only" (without video picture) signal is received from the broadcaster, **AUDIO ONLY** will appear on the TV screen.
- 4 You will not be able to receive pay channels when using direct antenna/ cable connection to the television.
- 5 When the set-top box is connected to the television using coaxial cable, it is necessary to auto-program the television for the signal channel (3 or 4) that the set-top box outputs and change the channels at the set-top box to view the program.
- 6 When the set-top box is connected to the television using **AV** connection, select the television input source for the set-top box to view the program and change the channels at the set-top box to view the program.
- 7 Pressing the **Ana/Dig** button on the remote control toggles the TV between Digital and Analog Mode.

Accessories List:

- 1 Remote Control
- 2 AA batteries
- 1 User Manual
- 1 Warranty card

DESCRIPTION OF REMOTE CONTROL BUTTONS

NUMERIC (0-9) Buttons - To select TV channels or enter values in the on-screen menu. For single channel entries, press the numbered button for the channel you desire. The TV will pause for a second or two before changing to the chosen channel.

VOL(ume) +/- Buttons - To increase or decrease the TV sound level.

OK Button - To activate operations in the onscreen menu and to activate the channel list.

Cursor Buttons (< , > , ^ , v)
- To highlight and select items on the TV onscreen menu.

MENU Button - To display the main menu.

GO BACK Button - To return to the previous channel or menu.

FAV Button - To toggle among the favorite channels

SLEEP Button - To set a period of time after which the TV turns itself off or deactivate the sleep timer.

CC Button - To display closed caption submenu directly

POWER Button - Press to turn the TV On or put on **Standby** mode.

PICTURE Button - To choose from five pre-defined picture settings. (Personal, Weak Signal, Sports, Movies or Multimedia).

SOUND Button - To display Digital Audio menu in Digital mode.

CH + or CH- Buttons - To select channels in ascending or descending order.

MUTE Button - To turn off the sound from the TV.

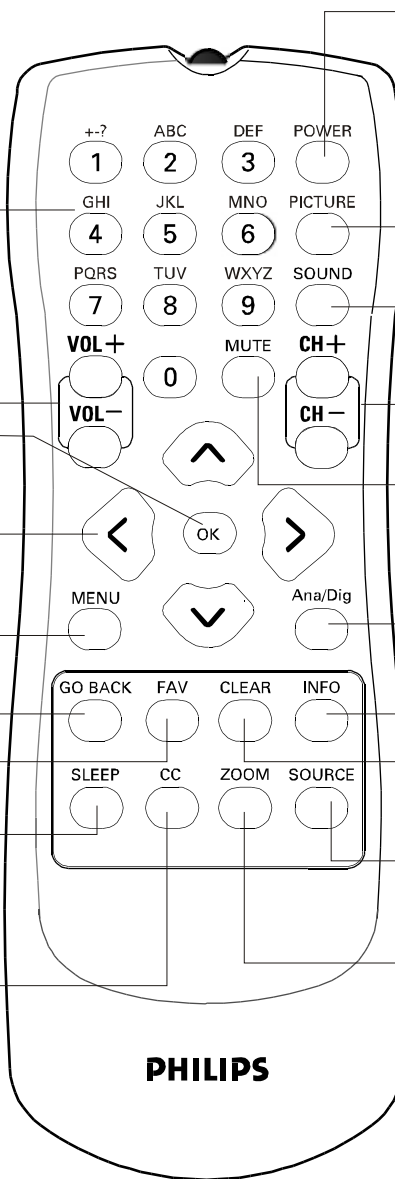
Ana/Dig Button - To select Analog or Digital mode.

INFO Button - To display information banner

CLEAR Button - To remove any menu or display from the screen and return you to normal TV viewing.

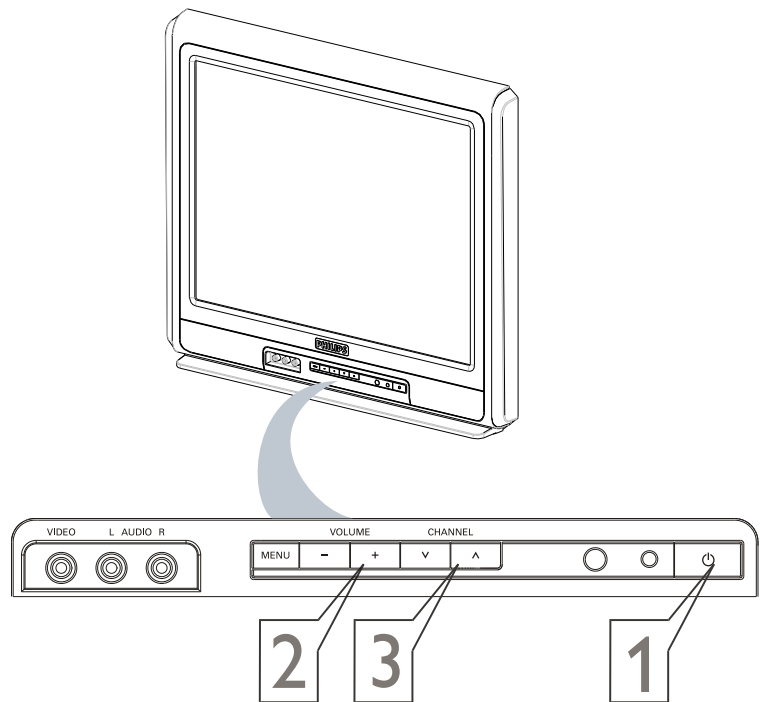
SOURCE Button - To select the signal source (the last-viewed digital TV, the last-viewed analog TV, FRONT, AVI or CVI)

ZOOM Button - To select a picture format mode for 16:9 digital signal.



BASIC TV AND REMOTE CONTROL OPERATION

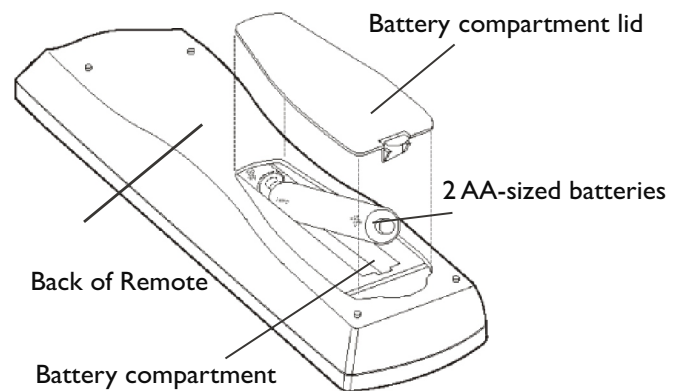
- 1 Press **POWER** button on the TV to turn it on.
- 2 Press the **VOLUME +** to increase the sound level and **VOLUME -** to lower the sound level.
- 3 Press **CHANNEL +** or **-** to select TV channels.
- 4 Point the remote control towards the remote sensor window on the front of the TV when using the remote control.
- 5 Press **MENU** button on the remote to display the onscreen menu.



REMOTE CONTROL

How to load the supplied batteries into the remote control.

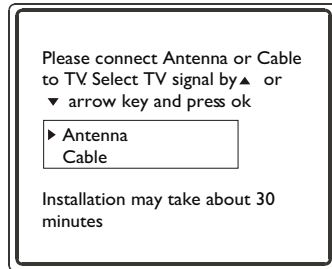
- 1 Remove the battery compartment lid on the back of the remote control.
- 2 Insert two AA-sized batteries into the battery compartment, making sure the positive + and negative - polarity line up correctly as indicated inside the case.
- 3 Close the battery lid.



FIRST TIME YOU TURN ON THE TV

The first time you turn on the new TV set, you will see a screen that helps you to auto install the programs. Auto installation starts with the analogue channels followed by the digital channels. The time taken for installation depends on the number of channels available. During installation, if you press the **CURSOR** < button on the remote control you stop the installation process. The channels that are already found are kept. When searching completes, the information about how many Analog channels and Digital channels are found will appear on the screen.

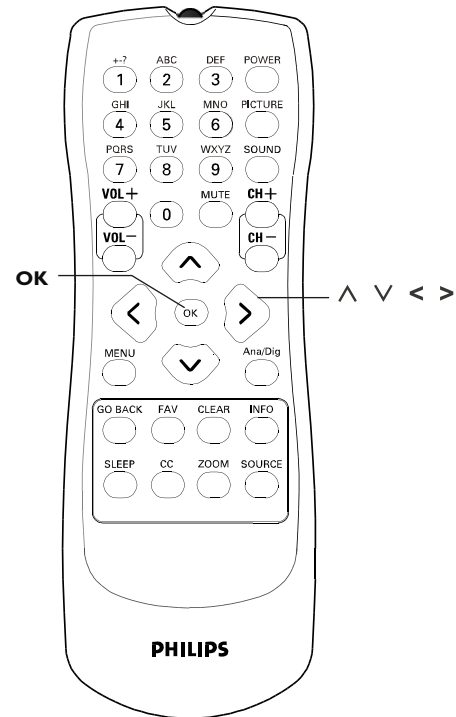
Note : *This screen will only appear the first time you turn on the TV. If you wish to auto install programs later, please follow the procedure in the next page (page 9).*



Follow the instructions on this screen to start auto installation:

Press **CURSOR** ▲ or ▼ to select Antenna or Cable.

Press **OK** button to confirm and start auto installation.



HELPFUL HINTS

ANTENNA : If you have an off-air or roof-top antenna, select **Antenna**.

CABLE : If you have subscribed to cable signal from any cable company, or you are receiving free-to-air cable channels through your wall connection select **Cable**.

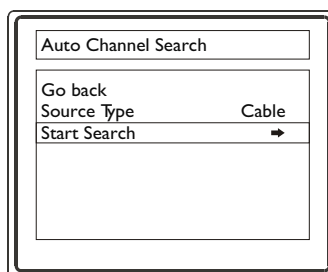
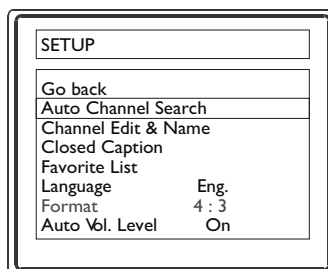
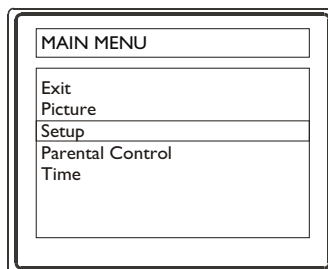
The first-time installation will install both Digital and Analog channels.

AUTO CHANNEL SEARCH

You can auto install programs on your TV. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+) or (-) buttons are pressed.

Follow these steps for Digital Mode and Analog Mode.

- 1** Complete the antenna or cable signal connection before activating **AUTO CHANNEL SEARCH**. See "**How to make the best connection guide**" for details.
- 2** Press **MENU** button on the remote control to display onscreen menu.
- 3** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Setup** highlighted.
- 4** Press **CURSOR** $<$ or $>$ to display the **SETUP** menu features.
- 5** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the setup features until you see **Auto Channel Search** highlighted.
- 6** Press **CURSOR** $<$ or $>$ to display the Auto Channel Search menu features. Use **CURSOR** $\wedge$ or $\vee$ to highlight **Start Search**.
- 7** Press **CURSOR** $<$ or $>$ and auto channel search will begin. This may take some time depending on the number of channels available. Analog channels searching completes followed by digital channels'. During searching, pressing **CURSOR** $<$ will stop the process but with all already found channels kept. When searching completes, the information about how many Analog channels and Digital channels are found will appear on the screen.



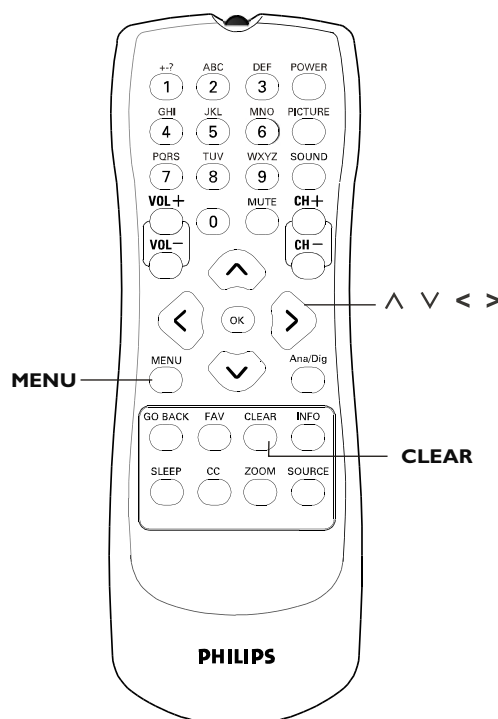
HELPFUL HINTS

When **Cable** is selected, channels 1 to 135 are available in Digital Mode and channels 1 to 125 are available in Analog Mode.

When **Antenna** is selected, channels 2 to 69 are available for both Digital and Analog Modes.

When you are in **Digital Mode**, channel numbers will be displayed as 1-2, or 2-35 etc.

Whether you selected either Cable or Antenna mode, both Digital and Analog channels will be installed.

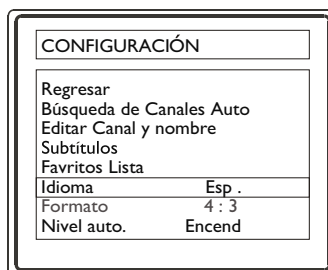
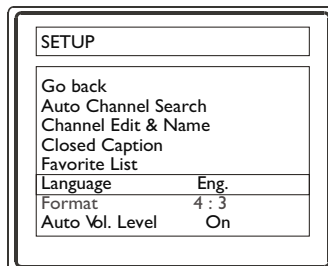
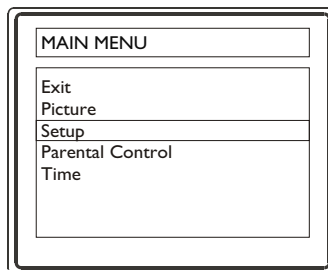


HOW TO USE THE LANGUAGE CONTROL

For Spanish speaking TV owners an onscreen language option is present. With the language control you can set the TV's onscreen menu to be shown in English or Spanish.

Follow these steps for Digital Mode and Analog Mode.

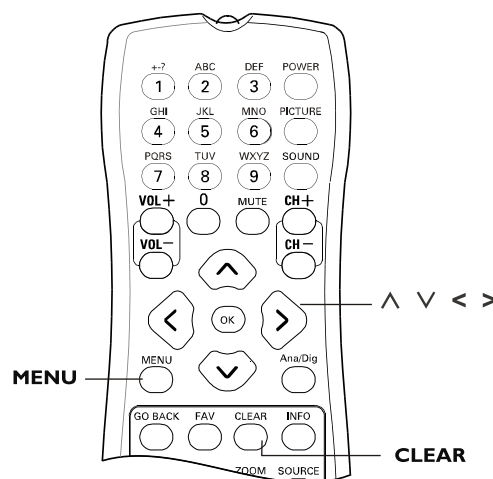
- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Setup** highlighted.
- 3 Press **CURSOR** $<$ or $>$ to display the SETUP menu features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the setup features until you see **Language** highlighted.
- 5 Press **CURSOR** $<$ or $>$ to select **Eng.** (English) or **Esp.** (Spanish).
- 6 When finished, press **CLEAR** button to clear the menu from the TV screen.



HELPFUL HINTS

The Language control only makes the TV onscreen Menu items appear in English or Spanish text.

It does not change the other onscreen text languages such as Closed Caption (CC) .

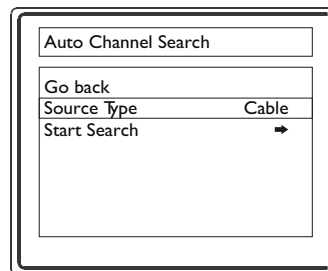
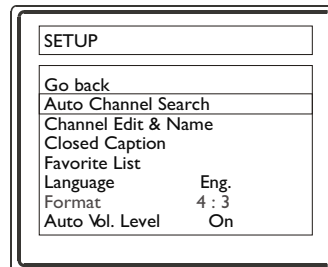
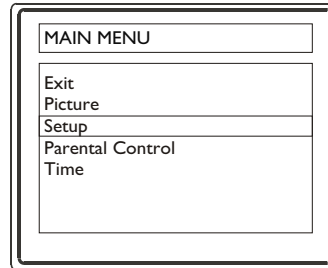


HOW TO USE THE SOURCE TYPE CONTROL

The SOURCE TYPE control lets you change the TV input signal to ANTENNA or CABLE mode. It is important that you know which type of signal to look for (Cable or Antenna).

Follow these steps for Digital Mode and Analog Mode.

- 1** Press **MENU** button on the remote control to display onscreen menu.
- 2** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Setup** highlighted.
- 3** Press **CURSOR** $<$ or $>$ to display the SETUP menu features.
- 4** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the setup features until you see **Auto Channel Search** highlighted.
- 5** Press **CURSOR** $<$ or $>$ to display the Auto Channel Search menu features. Use **CURSOR** $\wedge$ or $\vee$ to highlight **Source Type**
- 6** Press **CURSOR** $<$ or $>$ to toggle between Antenna and Cable.
- 7** When finished, press **CLEAR** button to clear the menu from the TV screen.



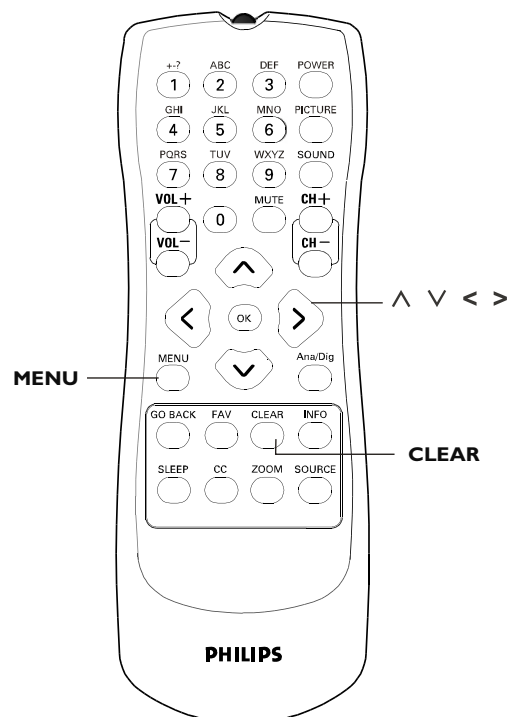
HELPFUL HINTS

When **Cable** is selected, channels 1 to 135 are available in Digital Mode and channels 1 to 125 are available in Analog Mode.

When **Antenna** is selected, channels 2 to 69 are available for both Digital and Analog Modes.

When you are in **Digital Mode**, channel numbers will be displayed as 1-2, or 1-3 etc.

Whether you selected either Cable or Antenna mode, both Digital and Analog channels will be installed.

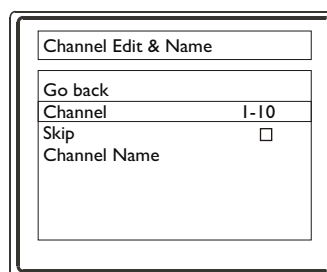
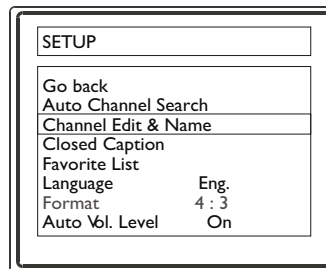
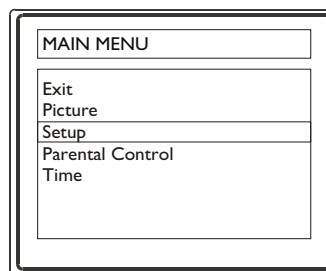


CHANNEL EDIT & NAME

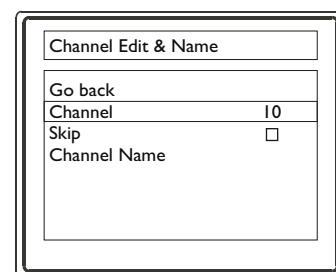
Channel Edit & Name allows you to skip or not a channel and assign a name to the channel.

Follow these steps for Digital Mode and Analog Mode.

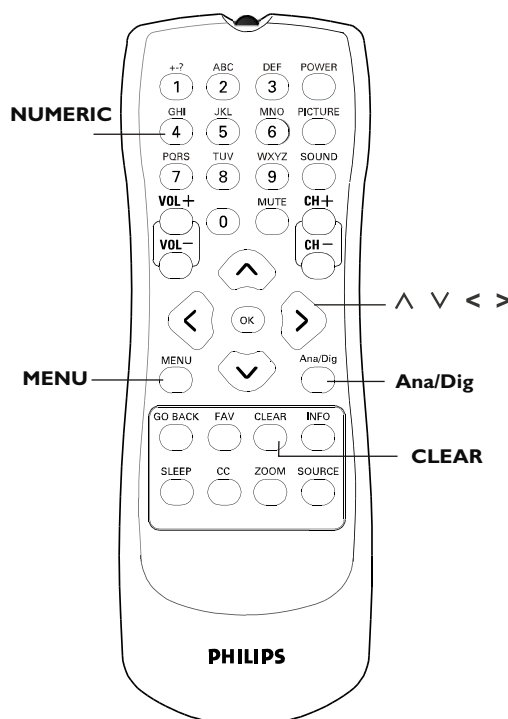
- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Setup** highlighted. Press **CURSOR** $<$ or $>$ to display the SETUP menu features.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the setup features until you see **Channel Edit & Name** highlighted. Press **CURSOR** $<$ or $>$ to display its features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Channel**. Use **CURSOR** $<$ or $>$ to select a channel No..
- 5 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Skip**. Use **CURSOR** $<$ or $>$ to check or uncheck. If checked, the channel will be skipped while scrolling channels with **CH+/CH-**.
- 6 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Channel Name**. Use **CURSOR** $<$ or $>$ to move the cursor left or right and press **NUMERIC** buttons to enter the name. The name can have six letters at most.
- 7 When finished, press **CLEAR** button to clear the menu from the TV screen.



Digital Mode



Analog Mode



HELPFUL HINTS

It is important to auto install the TV (Refer to page 9) before you try to Edit the Channels.

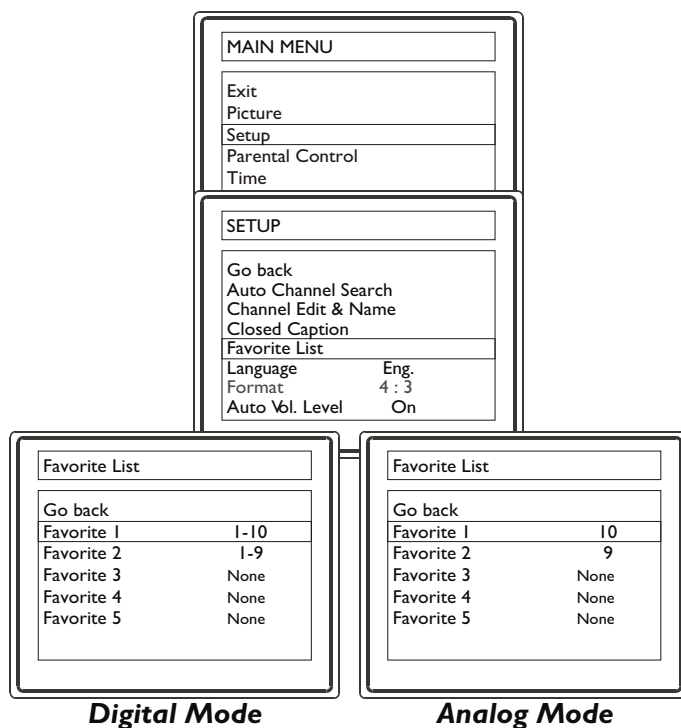
Press **Ana/Dig** button on the remote control to toggle between Digital and Analog Mode.

FAVORITE LIST

Favorite List allows you to set up to 5 channels to your favorite in Digital mode or Analog mode each. By pressing **FAV** button repeatedly, you can easily access all the favorite channels you have set.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Setup** highlighted. Press **CURSOR** $<$ or $>$ to display the **SETUP** menu features.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the setup features until you see **Favorite List** highlighted. Press **CURSOR** $<$ or $>$ to display its features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ followed by **CURSOR** $<$ or $>$ to select a channel No. for each Favorite
- 5 When finished, press **CLEAR** button to clear the menu from the TV screen.
- 6 Press **FAV** button repeatedly to go to the favorite channels you have set. If you want to cancel one or two channels from the favorite channel cycle, just go back to the Favorite List menu. Use **CURSOR** $\wedge$ or $\vee$ to highlight the corresponding favorites and press **CURSOR** $<$ or $>$ to select **None**.

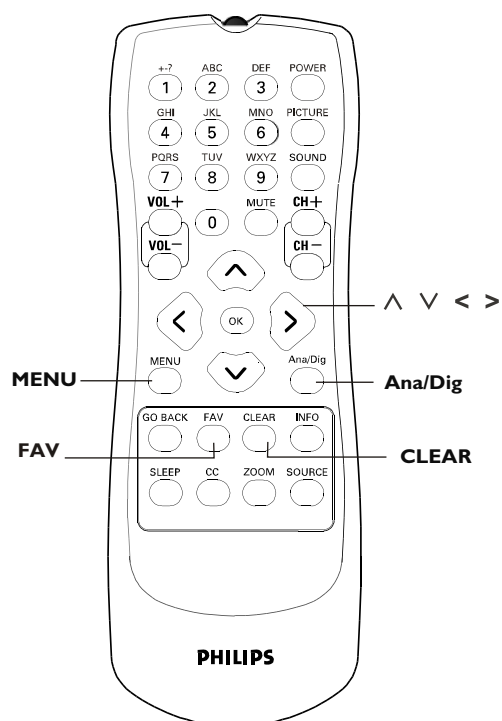


HELPFUL HINTS

When you are in Digital mode, you can only set Digital favorite channels. And in Digital mode, you can only access the Digital favorite channels.

When you are in Analog mode, you can only set Analog favorite channels. And in Analog mode, you can only access the Analog favorite channels.

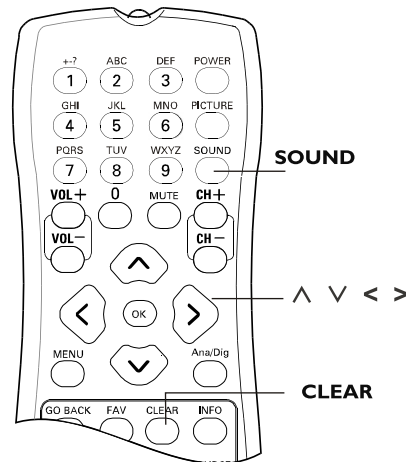
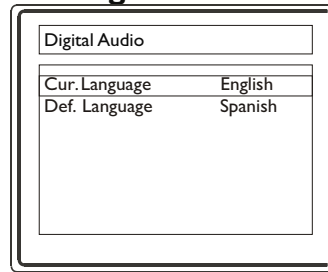
Press **Ana/Dig** button on the remote to switch between Digital and Analog Mode.



DIGITAL AUDIO

Digital Audio allows you to select the language you preferred for dialog when it is available. This feature is **ONLY** available in **Digital Mode**.

Digital Mode



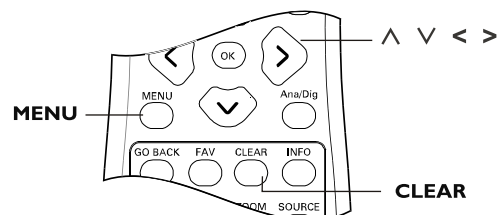
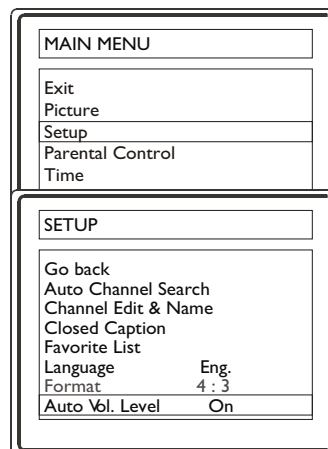
- 1 Press **SOUND** button on the remote control to display **Digital Audio** menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu to highlight **Cur. Language**.
- 3 Press **CURSOR** $<$ or $>$ to select an audio language available for the program that you are watching. If the selected language is being broadcast, it becomes your preferred audio language for that digital channel until you turn the TV off. Otherwise, the TV will play the default audio for the program.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu to highlight **Def. Language**.
- 5 Press **CURSOR** $<$ or $>$ to select an audio language you prefer for dialog on digital channels. The options are **English** or **Spanish**. If the language is being broadcast with a program, the TV will play it. If not, then the TV will play the default audio for the program.
- 6 When finished, press **CLEAR** button to clear the menu from the TV screen.

AUTOVOLUME LEVELER CONTROL

Auto Volume Leveler (AVL) Control keeps the TV sound at an even level. Differences in volume levels during commercial breaks or channel changes are reduced, making a more consistent, comfortable sound for your listening pleasure.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display main menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu to highlight **Setup**. Press **CURSOR** $<$ or $>$ to display **SETUP** menu.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Auto Vol. Level**. Press **CURSOR** $<$ or $>$ to select **On** or **Off**. When turned **On**, AVL will level out the sound being heard when sudden change in volume occurs during breaks or channel changes.
- 4 When finished, press **CLEAR** button to clear the menu from the TV screen.

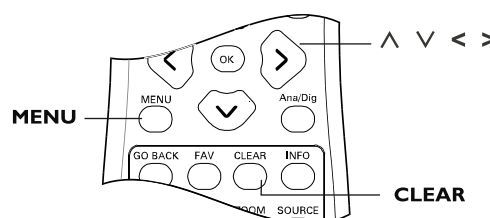
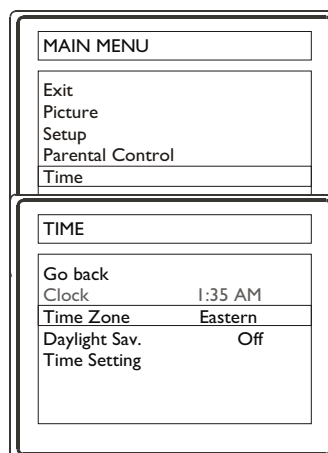


TIME ZONE

This feature allows you to select the time zone you are in.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Time** highlighted.
- 3 Press **CURSOR** $<$ or $>$ to display the TIME menu features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the time features until you see **Time Zone** highlighted.
- 5 Press **CURSOR** $<$ or $>$ repeatedly to select the Time Zone you are in. Choices include **Central, Eastern, Atlantic, Hawaii, Alaska, Pacific** and **Mountain**.
- 6 When finished, press **CLEAR** button to clear the menu from the TV screen.

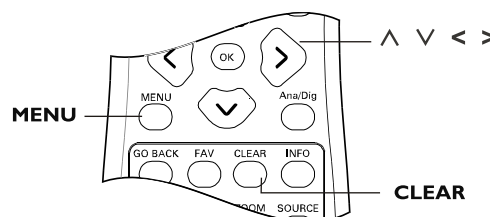
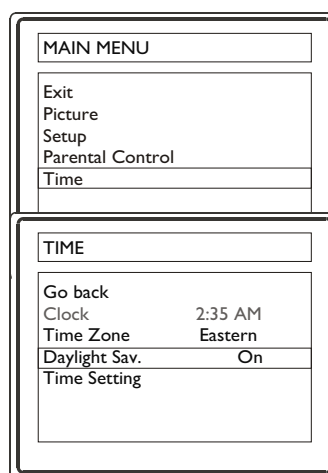


DAYLIGHT SAVING

Daylight saving feature allows you to adjust the timer on the TV an hour ahead of the official standard time.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Time** highlighted.
- 3 Press **CURSOR** $<$ or $>$ to display the TIME menu features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the time features until you see **Daylight Sav.** highlighted.
- 5 Press **CURSOR** $<$ or $>$ to select **On** or **Off**. If **Daylight Sav.** is set to On, the timer on the TV will display One hour ahead of the actual time. If **Daylight Sav.** is set to Off, the timer on the TV will display the actual time set.
- 6 When finished, press **CLEAR** button to clear the menu from the TV screen.



PICTURE MENU CONTROLS

To adjust your TV picture controls, select a channel and use the Picture Menu Controls listed below. Your selection is stored as Personal.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Picture** highlighted.
- 3 Press **CURSOR** $<$ or $>$ to display the PICTURE menu features.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the picture features and use **CURSOR** $<$ or $>$ to adjust

Color Control - to add or remove color.

Brightness Control - until the darkest parts of the picture are as bright as you want.

Contrast Control - to increase or decrease the difference between the black portions and white portions of the picture. When contrast is increased, it helps to "sharpen" the picture quality.

Sharpness Control - to improve sharpness in the picture.

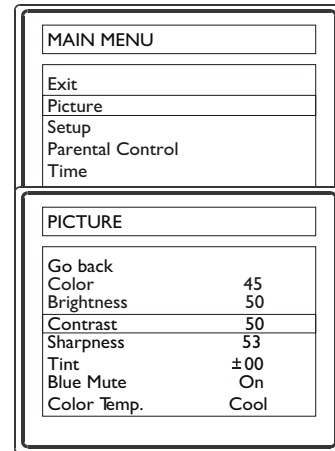
Tint Control - to adjust natural skin tones in the picture quality. This option is adjustable only for NTSC signals and not available in CVI mode.

NOTE: There is a bargraphic to display for each of the above options. When finished, press **OK** button to exit back to PICTURE menu.

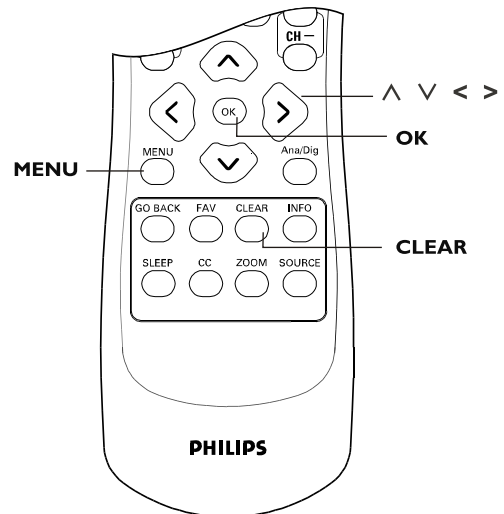
Blue Mute Control - when set to On, blue background will appear and sound is muted when no signal is received.

Color Temp. Control - to select Normal, Warm, or Cool picture preferences. For Normal, whites will maintain their whiteness; Cool will make the white bluish; and Warm will make the whites reddish.

- 5 When finished, press **CLEAR** button to clear the menu from the TV screen.



Contrast 50



HELPFUL HINTS

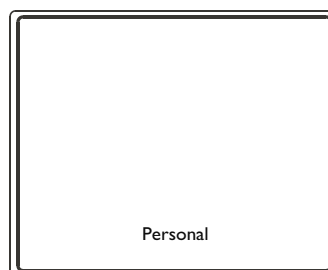
Press **Ana/Dig** button on the remote to switch between Digital and Analog Mode.

AUTO PICTURE

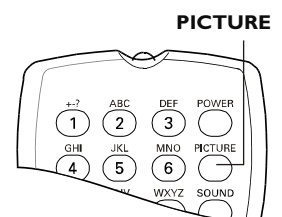
Whether you're watching a movie or a sporting event, your TV has automatic video control settings to enhance your current program source or content.

- 1 Press **PICTURE** button on the remote control. The current Auto Picture setting will display on the screen.
- 2 Press **PICTURE** repeatedly to select either **Personal**, **Weak Signal**, **Sports**, **Movies** or **Multimedia** picture settings.

NOTE: The way you choose to set the Picture Menu controls will become your personal setting.



Weak Signal
↓
Sports
↓
Movies
↓
Multimedia



UNDERSTANDING PARENTAL CONTROLS

Parental control is a feature that lets the TV receive and process data sent by broadcasters or other program providers with program content advisory. When programmed by the viewer, a TV with Parental Control can respond to the content advisory and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This feature is useful for adults to prevent certain types of programs from being viewed by children.

Parental control offers the following features to choose from:

V-chip Setting - allows you to block programs by ratings. Within its submenu, you can use a certain rating like **Movie Ratings, USA TV Content Ratings, Unrated** or **No Rating**.

Movie Ratings - Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America (MPAA).

USA TV Content Ratings - Like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by USA TV broadcasters.

Unrated / No Rating - All programs with no content advisory data can be blocked if **Unrated / No Rating** is set to .

Master Enable - Is a "master switch" for parental lock. When set to , all blocking/censoring you have set is enabled. Otherwise, if set to , all blocking is disabled.

Child Lock - When set to , the front panel of the TV is locked and the TV can be operated by the remote control only.

Create Password - A password must be set to prevent children from unblocking questionable or censored programming set by their parents.

NOTE: All the above features are available in both Digital mode and Analog mode. Whether they are activated in either Digital mode or Analog mode, they work in both modes.

Downloadable V-chip - Lets you lock or unlock the programs with a new, different rating region code of 0x05 defined by extension or replacement of the content advisory system in the U.S.. This feature is only available in Digital mode and when there is a regional rating table available.

MOVIE RATINGS

G: General Audience - All ages admitted. Suitable for all ages.

PG: Parental Guidance Suggested - Contains material unsuitable for younger children.

PG-13: Parents Strongly Cautioned - Contains material unsuitable for children under the age of 13.

R: Restricted - Suitable for adults above 17 years of age only.

NC-17: - No one under the age of 17 will be admitted.

X: Adults Only - Contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV RATINGS

TV-Y: Designed for a very young audience, including children ages 2-6

TV-Y7: Contains Fantasy Violence (FV). Appropriate for children age 7 and above who have acquired the development skills needed to distinguish between make-believe and reality.

TV-G: Suitable for most audiences. Contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG: Contains material unsuitable for younger children. Could contain moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14: Contains some material unsuitable for children under 14 years of age. Contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

TV-MA: Viewed by adults and therefore may be unsuitable for children under 17. Contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

HELPFUL HINTS

Neither the V-chip settings nor the password you set will be reset by running AUTO CHANNEL SEARCH.

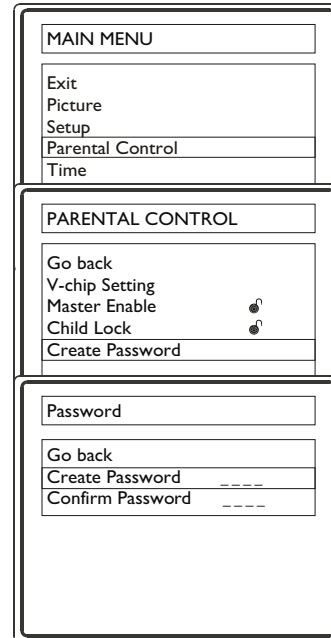
PARENTAL CONTROL - PASSWORD

Parental control allows you to block out any channels. A channel blocked by the Parental Control cannot be viewed until a correct password is used to unblock the channel for viewing. Parental control is defaulted without password protection. The first time you use the TV, create a password to activate Parental Control.

NOTE: the following menu illustrations are given for Analog mode only.

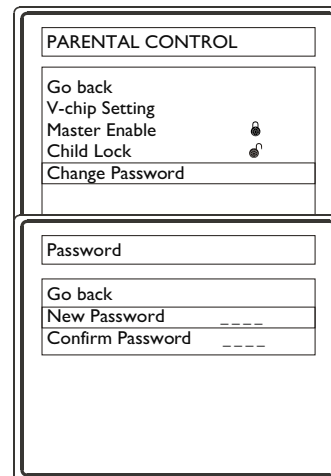
Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Parental Control** highlighted. Press **CURSOR** $<$ or $>$ to display the PARENTAL CONTROL menu.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to scroll through parental control features until you see **Create Password** highlighted. Press **CURSOR** $<$ or $>$ to display its submenu.
- 4 Press the **NUMERIC** buttons on the remote control to enter a four-digit password. You are required to input twice so as to confirm the password.



After you set the password, the PARENTAL CONTROL menu changes with "Create Password" being replaced by "Change Password". If you want to set another password easier for memory, just do as follows:

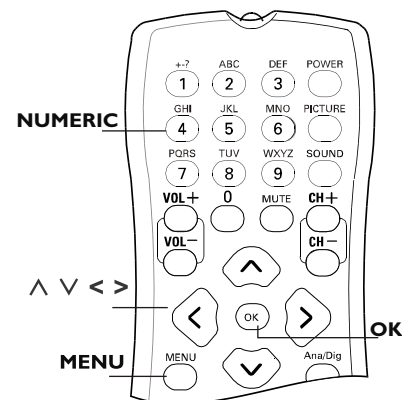
Press **CURSOR** $<$ or $>$ followed by the **NUMERIC** buttons on the remote control to enter a new four-digit password twice.



NOTE: Remember this code which you have set. You can use this code to access the Parental Control features in both Digital and Analog mode.

HELPFUL HINTS

If you forget the password, you can reset it with key combinations:
Put the TV to Standby mode first, then press the **VOL-** button on the front panel and the **Clear** button on the remote control at the same time and hold them for 5 seconds.



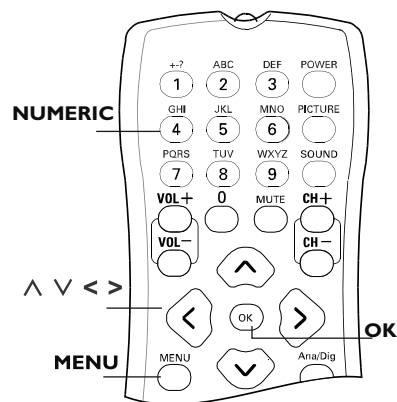
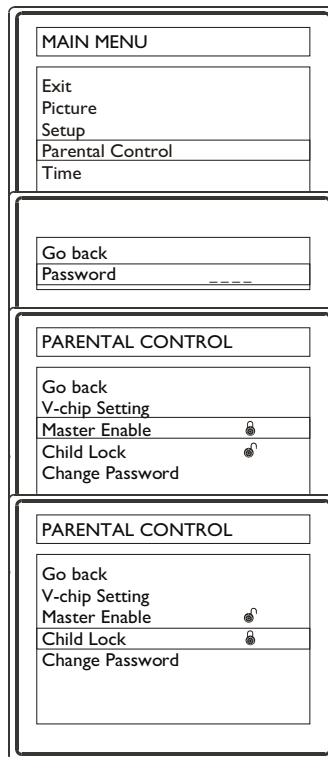
MASTER ENABLE AND CHILD LOCK CONTROL

Parental control includes **Master Enable** and **Child Lock** features. **Master Enable** is a “master switch” for Parental Control. Parental Control cannot take effect unless Master Enable is activated. When a password is set, Master Enable is automatically enabled.

NOTE: the following menu illustrations are given for Analog mode only.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **MENU** button on the remote control to display onscreen menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Parental Control** highlighted. Press **CURSOR** $<$ or $>$ and you are required to enter the password you have set. If you enter a wrong password, “**Incorrect Password!**” will appear. Then you have to try again. Only with a correct password, you have access to PARENTAL CONTROL menu. Within the Parental Control menu, you can see **Master Enable** is set to $\mathbb{L}$.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Master Enable**. If you use **CURSOR** $<$ or $>$ to change the setting of **Master Enable** to $\mathbb{L}$, Master Enable is deactivated and then password protection is cancelled.
- 4 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Child Lock**. If you want to lock the buttons on the front panel, use **CURSOR** $<$ or $>$ to set to $\mathbb{L}$. Then the message “**Child Lock! Press any key to remove this message**” will appear when any button on the front panel is pressed. And you can operate the TV with the remote control only.
- 5 When finished, press **CLEAR** button to clear the menu from the TV screen.



MOVIE RATINGS

The parental control feature can block programs based on the Movie Industry ratings. Once you have entered your password, the Parental Control features are displayed on the screen.

NOTE: the following menu illustrations are given for Analog mode only.

Follow these steps for Digital Mode and Analog Mode.

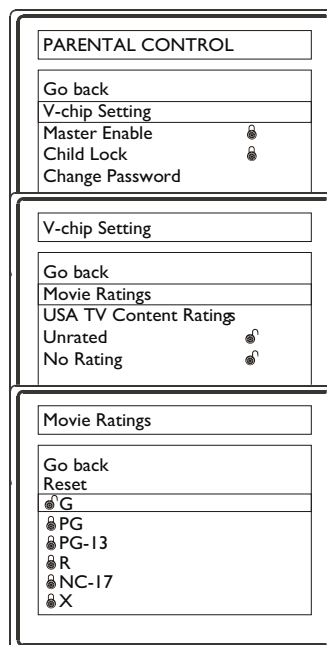
1 Press **CURSOR** $\wedge$ or $\vee$ until you see **V-chip Setting** highlighted. Press **CURSOR** $<$ or $>$ to display the V-chip Setting menu.

2 Press **CURSOR** $\wedge$ or $\vee$ until you see **Movie Ratings** highlighted. Press **CURSOR** $<$ or $>$ to display Movie Ratings menu. It includes the six options: G, PG, PG-13, R, NC-17 and X.

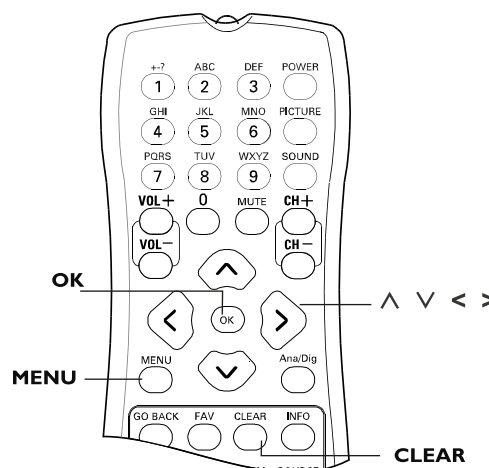
3 Press **CURSOR** $\wedge$ or $\vee$ to highlight any of the Movie Ratings options. When highlighted, press **OK** to set $\mathbb{G}$ (which will allow viewing) or $\mathbb{R}$ (which will allow blocking).

NOTE: locking a lower rating automatically locks all the higher ratings.

4 When finished, press **CLEAR** button to clear the menu from the TV screen.



NOTE: If Parental Control is activated while a TV program with the rating locked in the Movie Ratings menu is received for the current channel, a message will appear to tell you to press **OK** to enter the password to temporarily deactivate Parental Control.



HELPFUL HINTS

“Reset” in Movie Ratings menu can unblock all options. Press **CURSOR** $\wedge$ or $\vee$ to highlight **Reset** and press **OK** to do this.

USA TV CONTENT RATINGS

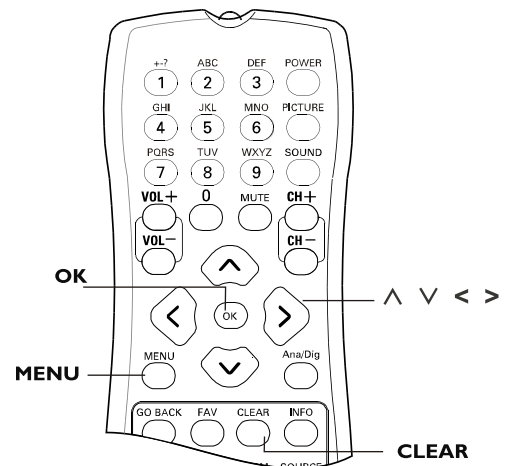
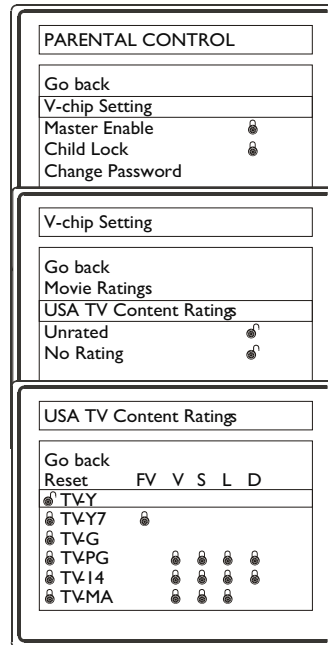
The parental control feature can block programs based on the USA TV Industry ratings. Once you have entered your password, the Parental Control features are displayed on the screen.

NOTE: the following menu illustrations are given for Analog mode only.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **CURSOR** $\wedge$ or $\vee$ until you see **V-chip Setting** highlighted. Press **CURSOR** $<$ or $>$ to display the V-chip Setting menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ until you see **USA TV Content Ratings** highlighted. Press **CURSOR** $<$ or $>$ to display the USA TV Content Ratings menu.
- 3 Press **CURSOR** $\wedge$ or $\vee$ to highlight any rating option (TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA). When highlighted, press **OK** to set $\mathbb{U}$ (which will allow viewing) or $\mathbb{L}$ (which will allow blocking).
- 4 The TV-Y7, TV-PG, TV-14 and TV-MA each includes different content themes: FV, V, S, L or D. Press **CURSOR** $<$ or $>$ to select one and press **OK** to set $\mathbb{U}$ (which will allow viewing) or $\mathbb{L}$ (which will allow blocking).
- 5 When finished, press **CLEAR** button to clear the menu from the TV screen.

NOTE: If Parental Control is activated while a TV program with the rating locked in the USA TV Content Ratings menu is received for the current channel, a message will appear to tell you to press **OK** to enter the password to temporarily deactivate Parental Control.



HELPFUL HINTS

"Reset" in USA TV Content Ratings menu can unblock all options. Press **CURSOR** $\wedge$ or $\vee$ to highlight **Reset** and press **OK** to do this.

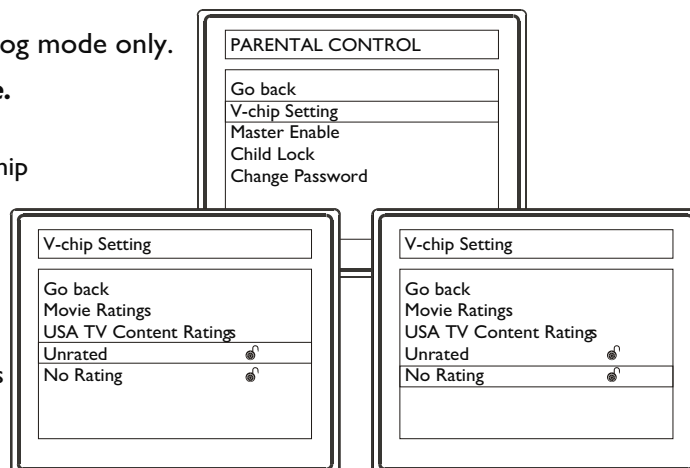
UNRATED AND NO RATING

The parental control feature can block programs with no content advisory data. Once you have entered your password, the Parental Control features are displayed on the screen.

NOTE: the following menu illustrations are given for Analog mode only.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **CURSOR** $\wedge$ or $\vee$ until you see **V-chip Setting** highlighted. Press **CURSOR** $<$ or $>$ to display the V-chip Setting menu.
- 2 Press **CURSOR** $\wedge$ or $\vee$ to highlight **Unrated**. Press **CURSOR** $<$ or $>$ to set $\odot$ (which will allow viewing) or $\bullet$ (which will allow blocking).
- 3 Press **CURSOR** $\wedge$ or $\vee$ to highlight **No Rating**. Press **CURSOR** $<$ or $>$ to set $\odot$ (which will allow viewing) or $\bullet$ (which will allow blocking).



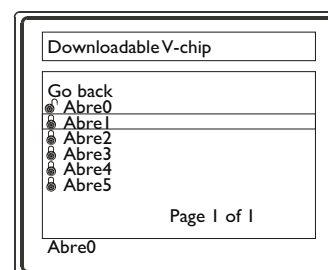
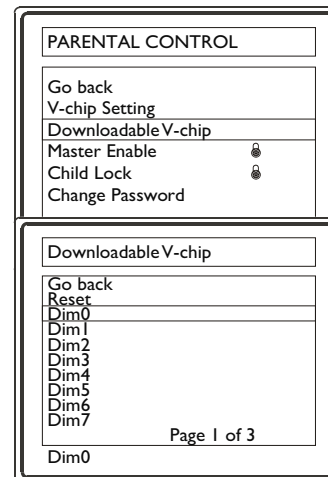
DOWNLOADABLE V-CHIP

This TV supports downloadable V-chip which allows you to block programs with a new, different rating region code of 0x05. **This feature is ONLY available in Digital mode and if the stream contains the regional ratings table.**

If you are watching a digital signal with the regional ratings table, you can follow the procedures below. Once you have entered your password, the Parental Control features are displayed on the screen.

- 1 Press **CURSOR** $\wedge$ or $\vee$ until you see **Downloadable V-chip** highlighted. Press **CURSOR** $<$ or $>$ to display the Downloadable V-chip submenu. You can see there are many items. The amount of items and their names are dependent on the signal stream received. Every page can display 8 items at most. If the stream contains more than 8 items, they will be displayed multi-paged.
- 2 Press **CURSOR** $<$ or $>$ to select a page and press **CURSOR** $\wedge$ or $\vee$ to highlight one item, i.e. Dim0. Press **OK** to enter its submenu and see all the ratings it contains. The amount of ratings and their names are dependent on the signal stream received. Every page can display 8 ratings at most. If the item contains more than 8 ratings, they will be displayed multi-paged.
- 3 Press **CURSOR** $<$ or $>$ to select a page and press **CURSOR** $\wedge$ or $\vee$ to highlight one rating, i.e. Abre0. Press **OK** to set $\odot$ (which will allow viewing) or $\bullet$ (which will allow blocking).

NOTE: If the ratings are graduated, locking a lower rating automatically locks all the higher ratings.



HELPFUL HINTS

If there is only one page, pressing **CURSOR** $<$ or $>$ does not work.

"Reset" in Downloadable V-chip menu can clear limiting of all ratings. Press **CURSOR** $\wedge$ or $\vee$ to highlight **Reset** and press **OK** to do this.

HOW TO USE THE TIME MENU CONTROLS

This television comes with an onscreen clock. You can set the TV to turn itself on or off at a specific time, once or daily.

Follow these steps for Digital Mode and Analog Mode.

- 1** Press **MENU** button on the remote control to display onscreen menu.
- 2** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the onscreen menu until you see **Time** highlighted.
- 3** Press **CURSOR** $<$ or $>$ to display the TIME menu features.
- 4** Press **CURSOR** $\wedge$ or $\vee$ to scroll through the time features until you see **Time Setting** highlighted. Press **CURSOR** $<$ or $>$ to display its submenu.
- 5** Press **CURSOR** $\wedge$ or $\vee$ until one of the options (Today's Date, Clock, Update Clock, Off Time or On Time) is highlighted.
- 6** Make adjustments to the selected items by following the steps below:

Today's Date - Use the **NUMERIC** buttons to enter the date in the format of MM/DD/YYYY.

Clock - Use the **NUMERIC** buttons to enter a time or use **CURSOR** $<$ or $>$ to select a time. Press **OK** to toggle between AM and PM.

Cur. CHTime - This line exists only in Digital mode, displaying the time extracted from the current viewing channel.

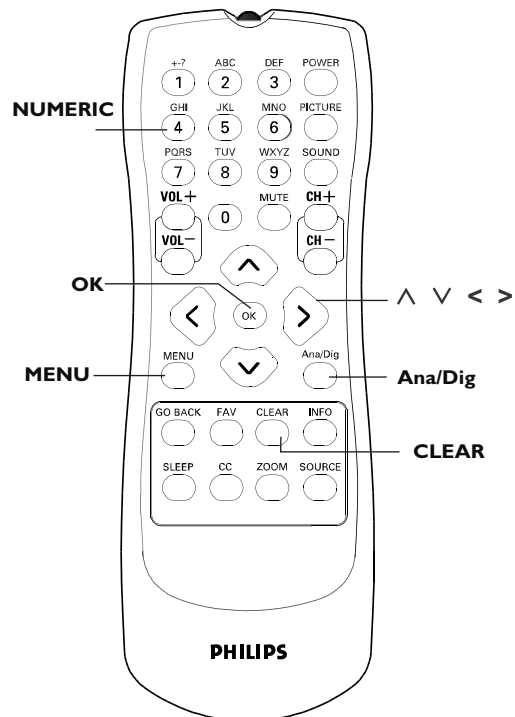
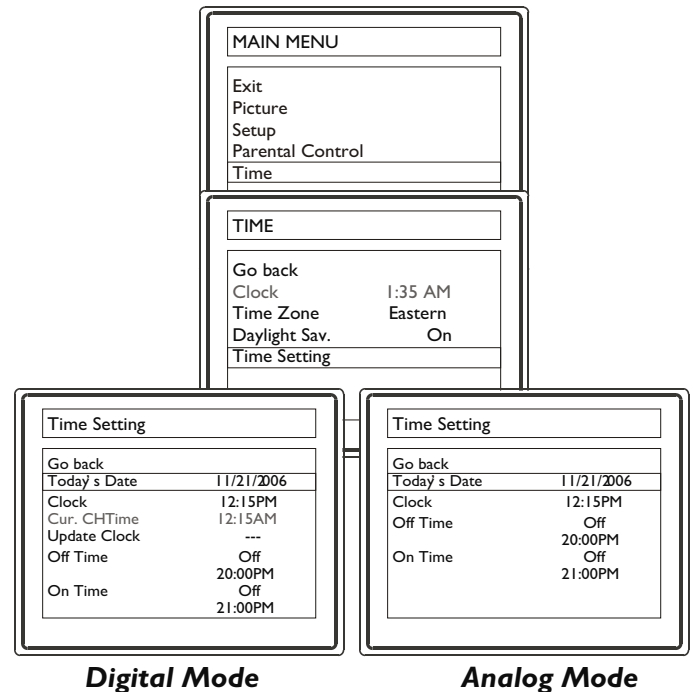
Update Clock - only available in Digital mode. Use **CURSOR** $<$ or $>$ to update the time displayed on **Clock** line and make it be consistent with the time of **Cur. CH Time**. Once updating finishes, "Done" will appear.

OffTime - Set how often the timer turn itself off at a certain time. Use **CURSOR** $<$ or $>$ to select Off, Daily or Once. Use **NUMERIC** buttons to enter a time or use **CURSOR** $<$ or $>$ to select a time. Press **OK** to toggle between AM and PM.

NOTE: "TV Switching Off" will appear during the last minute before the TV switches off. If there is any operation done during the last minute, Off timer is cancelled.

On Time - Set how often the timer turn itself on at a certain time. Use **CURSOR** $<$ or $>$ to select Off, Daily or Once. Use **NUMERIC** buttons to enter a time or use **CURSOR** $<$ or $>$ to select a time. Press **OK** to toggle between AM and PM.

NOTE: If you press and hold **CURSOR** $<$ or $>$, time will change by 10min..



- 7** When finished, press **CLEAR** button to clear the menu from the TV screen.

HELPFUL HINTS

If there is a loss of power, the time set for **Clock** will be lost and must be re-entered.

Press **Ana/Dig** button on the remote to switch between Digital and Analog Mode.

HOW TO USE THE CLOSED CAPTION CONTROLS

Many programs are encoded with closed-captioning information. The Closed Caption feature lets you display the audio portion of a program as text on the TV screen. Closed Caption options are different for Digital mode and Analog mode.

Follow these steps for Digital Mode.

1 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the SETUP menu until you see **Closed Caption** highlighted.

2 Press **CURSOR** $<$ or $>$ followed by **CURSOR** $\wedge$ or $\vee$ to highlight **CC Display**. Press **CURSOR** $<$ or $>$ to select **Muted=On, On or Off**.

3 When **Muted=On** or **On**, you can set the following options:

CC Type - six choices for you to select: Service 1, Service 2, Service 3, Service 4, Service 5 and Service 6.

CC Mode - two choices: Customer and Broadcast.

If Customer is chosen, you can continue to customize the following display options:

CC Size - Standard, Large or Small for CC text

CC Font - Font 1, Font 2, Font 3, Font 4, Font 5, Font 6, Font 7 or Font 8 for CC text

CC Opacity - Solid, Flashing, Trnsl or Trnsp for CC text

CC Color - White, Red, Green, Blue, Yellow, Magenta, Cyan or Black for CC text

CC Bkgrnd. - to display CC Background menu. Then you can do further setting on CC Background, like its Edge Color, Edge Type, Bkgrd. Color and Bkgrd. Opacity.

SETUP	
Go back	
Auto Channel Search	
Channel Edit & Name	
Closed Caption	
Favorite List	
Language	Eng.
Format	
Auto Vol. Level	On

Closed Caption	
Go back	
CC Display	On
CC Type	Service 1
CC Mode	Customer
CC Size	Large
CC Font	Font 1
CC Opacity	Solid
CC Color	Blue
CC Bkgrnd.	

CC Background	
Go back	
Edge Color	Black
Edge Type	None
Bkgrd. Color	Red
Bkgrd. Opacity	Solid

4 When finished, press **CLEAR** button to clear the menu from the TV screen.

Follow these steps for Analog Mode.

1 Press **CURSOR** $\wedge$ or $\vee$ to scroll through the SETUP menu until you see **Closed Caption** highlighted.

2 Press **CURSOR** $<$ or $>$ followed by **CURSOR** $\wedge$ or $\vee$ to highlight **CC Display**. Press **CURSOR** $<$ or $>$ to select **Muted=On, On or Off**.

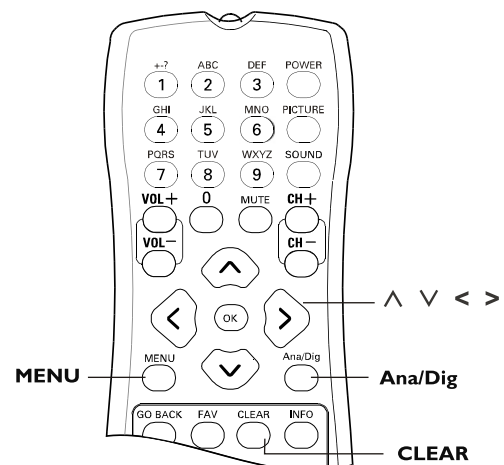
3 When **Muted=On** or **On**, you can set Analog CC. You can select one from CCI, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 and TEXT4.

4 When finished, press **CLEAR** button to clear the menu from the TV screen.

SETUP	
Go back	
Auto Channel Search	
Channel Edit & Name	
Closed Caption	
Favorite List	
Language	Eng.
Format	
Auto Vol. Level	On

Closed Caption	
Go back	
CC Display	On
Analog CC	CCI

Closed Caption	
Go back	
CC Display	On
Analog CC	CCI



HELPFUL HINTS

An alternative way of entering closed caption submenu is by pressing the **CC** button on the remote control.

Press **Ana/Dig** button on the remote control to toggle between Digital and Analog Mode.

HOWTO USE ZOOM CONTROL

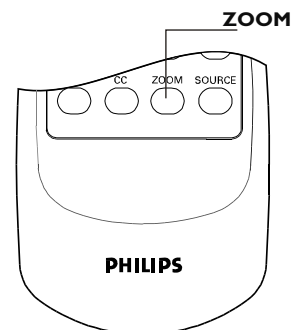
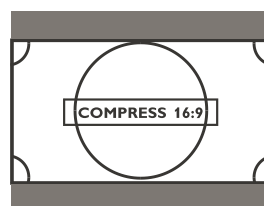
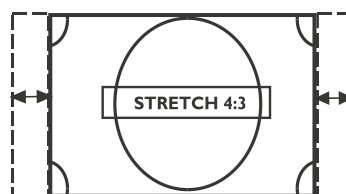
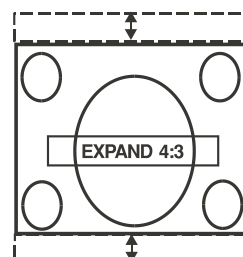
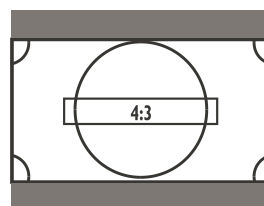
The Zoom Control feature allows you to select the picture format mode. **This feature is only available in Digital Mode.**

Selecting a Picture Format Using the Remote Control

- 1 Press **ZOOM** button repeatedly on the remote control to select one of the screen format options namely 4:3, Expand 4:3, Stretch 4:3 and Compress 16:9.

Picture Format Modes

- 4:3** Shows picture in 4:3 aspect ratio format. You will see two black borders at the top and bottom of the screen.
- Expand 4:3** Expands the picture vertically.
- Stretch 4:3** Expands the picture horizontally eliminating the side borders on both sides of the TV screen.
- Compress 16:9** Expands the picture horizontally delivering a home-cinema experience. The display effect is similar to 4:3.



HELPFUL HINTS

Picture Format Mode only can be activated when you are watching 16:9 programs.

Press **Ana/Dig** button on the remote control to toggle between Digital and Analog Mode.

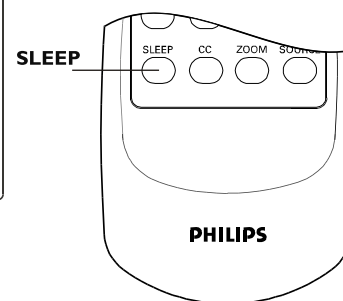
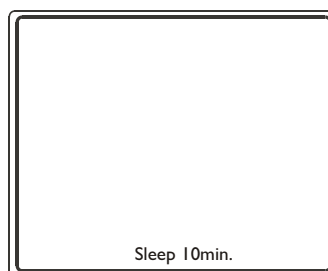
SLEEP TIMER

The Sleep Timer feature allows you to set a timer to automatically turn the TV off after a period of time you choose - ranging from 10 to 240 minutes in 10 minute intervals.

Follow these steps for Digital Mode and Analog Mode.

- 1 Press **SLEEP** button on the remote control to display the sleep timer menu.
- 2 Press **SLEEP** button on the remote control repeatedly to select the amount of time (10, 20, ..., 240min) before the TV automatically switches off. The cycle includes **Off** option. If set to Off, sleep timer is off.
- 3 When finished, press **CLEAR** button to clear the menu from the TV screen.

NOTE: "TV Switching Off" will appear during the last minute before the TV switches off. If there is any operation done during the last minute, sleep timer is cancelled.



INFORMATION BANNER

The Information Banner displays information of the program that is being transmitted by broadcasters. By pressing **INFO** button on the remote control, you can see Information Banner appear on the screen. Digital information banner is different from that for Analog. See the descriptions below:

Information Banner In Digital Mode

I-1 Flower		11:20 AM
9:00AM	12:00AM	Unrated
HD	Stereo	
Program name		

I-1 Flower: displays the digital channel no. and name

11:20 AM: displays the current time as set in time menu.

9:00 AM: displays the start time of the currently-viewed program

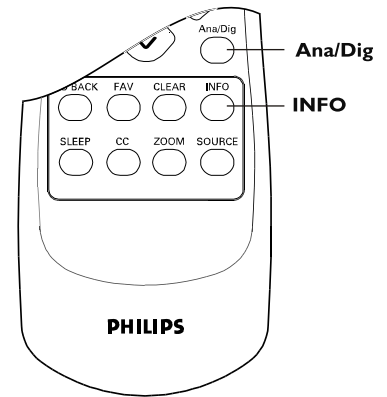
12:00 AM: displays the stop time of the currently-viewed program

Unrated: to indicate rating and content theme of the currently-viewed program

HD: displayed if the feature of high definition is available with the program; otherwise, display **SD**.

Stereo: to indicate the sound mode of the currently-viewed program. It may be Stereo or Mono according to the program itself. If the program is Multi Audio languages, display **Multi**.

The information on the Information Banner is transmitted by the broadcasters. The quality and accuracy of the information depend on the broadcaster. You might see a difference in broadcast time if the broadcaster is from different time zone area.



Information Banner In Analog Mode

10 Rain		11:20 AM
Analog		Unrated
MONO		

10 Rain: displays the analog channel no. and name

11:20 AM: displays the current time as set in time menu.

Unrated: to indicate rating and content theme of the currently-viewed program

Analog: to indicate TV is in Analog mode.

MONO: to indicate the sound mode of this TV.

NOTE: The information banner is time out. Or you can remove the information banner from the screen by pressing **CLEAR** button on the remote control.

HELPFUL HINTS

If "No Program Information" appears on the screen when the **INFO** button on the remote control is pressed, it means the broadcaster is not providing any information.

Press **Ana/Dig** button on the remote to switch between Digital and Analog Mode.

GLOSSARY

Aspect Ratio	The ratio between the width and height of the TV picture on the screen. In a normal TV set the aspect ratio is 4 to 3 (4:3). The aspect ratio in HDTV is 16:9, which resembles the aspect ratio in a movie theatre (Widescreen). New TV systems support both 4:3 and 16:9 aspect ratio and can automatically switch between them.
Audio Video (A/V)	A term often used when discussing a channel on a TV receiver or on video equipment, which has been especially designed to accept VCR audio-video signal. The A/V channel automatically activates special circuitry within the TV set to prevent picture distortion and skewing. It is also used for audio-video processors, which handle both types of signal.
ATSC	ATSC: Advance Television Systems Committee. Formed to establish technical standards for advanced television systems, including digital high definition television (HDTV).
CVBS	Composite Video Baseband Signal. In broadcast television this refers to the video signal, including the colour information and syncs.
DTV	Digital television. Generic term that refers to all digital television formats, including high-definition television (HDTV) and standard-definition television (SDTV).
Digital Tuner	A digital tuner serves as the decoder required to receive and display digital broadcasts. It can be included inside TV sets or via a set-top box.
HDTV	The generally agreed upon definition of HDTV is approximately twice the vertical and horizontal picture resolution of today's NTSC TV, which essentially makes the picture twice as sharp. HDTV also has a screen ratio of 16:9. HDTV offers reduced motion artifacts (i.e. ghosting, dot crawl), and offers 5.1 independent channels of CD-quality stereo surround sound, (also referred to as AC-3).
NTSC	National Television System Committee. The organization that developed the analog television standard currently in use in the U.S., Canada, and Japan. Now generally used to refer to that standard. The NTSC standard combines blue, red and green signals modulated as an AM signal with an FM signal for audio.
Progressive Scan	In Progressive Scanning all the horizontal scan lines are scanned on to the screen at one time. The Digital TV and HDTV standards accept both Interlaced Scan and Progressive Scan broadcast and display methods.
Resolution	Resolution: A measurement of the finest (smallest) detail that is visible in a video image. TV resolutions may be expressed as number of pixels in an image, or more commonly as Total Number of (horizontally scanned) Lines used to create the image. Standard Digital TV Resolutions: SDTV: 480i - The picture is 704x480 pixels, 480p - The picture is 704x480 pixels. HDTV: 720p - The picture is 1280x720 pixels, 1080i - The picture is 1920x1080 pixels, 1080p - The picture is 1920x1080 pixels.

TROUBLESHOOTING TIPS

Check the List of **Symptoms** and **Suggested Steps To Take** before requesting Service. You may be able to solve the problem yourself. If you face problems connecting the TV to external devices, please refer to the User Guide of the external device or call their service centers for help. Charges for TV installation and adjustments of customer controls are not covered under your warranty.

SYMPTOMS		SUGGESTED STEPSTO TAKE
Installation	Can't get the AV channels on the TV screen.	Press the SOURCE button on the remote control repeatedly to select the desired AV channels.
Installation	TV displays wrong channel or no channels above 13	Go to SOURCE TYPE in the television menu and select the correct signal source, then perform the automatic installation again. (Refer to page 11).
Installation	Channel numbers do not follow the channel number of the programs.	Go to SOURCE TYPE in the television menu and select the correct signal source, then perform the automatic installation again. (Refer to page 11).
Installation	Channel numbers look different. Eg. 23-1, 45-3 etc.	You are in Digital Mode. Press Anal/Dig button on the remote control to toggle between Digital and Analog mode.
Installation	Auto installation is taking too long.	Auto installation may take 20 to 40 minutes depending on the number of channels that are available.
Installation	Cannot set favorite channels in Favorite List.	1. You may not have completed auto installation. Do an auto installation again (refer to page 9). 2. You may have chosen the wrong SOURCE TYPE . Go to SOURCE TYPE in the TV menu and select the correct signal source, then perform the auto installation again (refer to page 11).
Parental Control	Unable to change Parental Control password.	You can change the Parental Control password via the helpful hint (refer to page 18).
Closed Caption	Closed Caption text does not appear.	Closed Caption text takes a while to appear. If Closed Caption text still does not appear, go to Closed Caption menu to switch to another Closed Caption channel (refer to page 24).
Digital Audio	Unable to switch to another audio language.	You can only select different audio languages when the program is broadcasted in different audio language (refer to page 14).
Zoom Control	Unable to change picture format.	Picture Format Mode only can be activated when you are watching 16:9 Digital programs (refer to page 25).
Information Banner	"No Program Information" appears on the TV screen.	Information is broadcaster dependent. If the broadcaster does not provide any information. " No Program Information " will be displayed when the INFO button on the remote control is pressed (refer to page 26).

TROUBLESHOOTING TIPS

SYMPTOMS		SUGGESTED STEPS TO TAKE
Settings	Error messages appear on the screen of TV: No Signal No Program Audio Only	Check that the antenna / cable is connected properly and that you have selected the correct source type (refer to page 11). There could be temporarily no transmission on the selected channel. When transmission is resumed or when available, your TV will receive it. The current channel has only audio transmission.
Sound	Sound is not in Stereo.	This could be due to any of the following reasons: 1. Not all transmitted broadcasts by the cable or broadcast stations are in STEREO. Try checking with several major network stations to be sure that the station you selected is in STEREO. 2. When using an AV input, the television will not display STEREO even though it is producing stereo sound.
Sound	Disturbing sound (such as buzzing, clicking, cracking, humming, whistling etc.)	It is normal to hear a disturbing sound (such as buzzing, clicking, cracking, humming, whistling, etc) from a distance less than 2 meters (6 feet) with the television sound muted. If problem occurs on one channel, you may have a signal problem. Please contact the cable provider or local broadcaster regarding the specific channel.
General	No power to the TV	Check the TV power cord. Unplug the power cord from the TV, wait 10 seconds, then reinsert the plug into your wall outlet. Power On the TV again. Plug the power cord directly to the wall socket and not via an extension cord. If you need to use an extension cord, check that the fuse on the AC power strip is not blown.
General	TV is not responding to Remote Control	Ensure the batteries are inserted into the remote control according to the illustration in the battery compartment (refer to page 7). Reset the TV by disconnecting the power plug from the wall outlet for 10 seconds and then reconnecting it again.
General	No picture to the TV	Check antenna connections. Are they properly secured to the TV ANT 75 ohm plug? Check the SOURCE TYPE control for the correct tuner setting. Try running the Auto Channel Search feature to find all available channels (refer to page 9). Press the SOURCE button on the remote control to make sure the correct signal source is selected (FRONT, AV1, CVI, Current Channel, etc.).
General	TV displays white lines in letterbox when viewing a DVD disc.	Some DVD discs are encoded with as much as 30% more video information to give the best possible picture quality. With the DVD player in the 16:9 picture format, the playback of this type of disc with extra video information can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this problem is inherent and does not require a service call.

CLEANING AND CARE

WARNING Concerning stationary images on the TV Screen:

Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the screen. Sources of stationary images may be DVD disks, laser disks, video games, cd-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):

- DVD menus— listings of DVD disk content.
- Letterbox black bars— shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- Video-game images and scoreboards.
- Television station logos— present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube.
- Stock-market tickers— presented at the bottom of the TV screen.
- Shopping channel logos and pricing displays— bright and shown constantly or repeatedly in the same location on the TV screen.

Placement of the TV

- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

Cleaning

- To avoid possible shock hazard, unplug the TV from the Electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent damage of the cabinet finish.

SPECIFICATIONS

	20PT9007D	
PICTURE / DISPLAY		
Aspect ratio :	4 : 3	
Picture Display Picture Enhancement	20" Real Flat Picture Tube Auto Picture (5 modes) Tint, Color, Sharpness, Color Temperature Control	
SOUND		
Sound Power (Output RMS)	2 x 2w	
CONVENIENCE	Auto Install Easy toggle Digital / Analog modes Closed Caption teletext Parental Lock Sleep Timer Clock	
ON SCREEN DISPLAY LANGUAGES	English, French and Spanish	
CONNECTIVITY		
Rear	Component Video In (Y Pb Pr) - 480i only Composite Video In (CVBS) Audio L/R In Audio/ Video Out (Cinch)	
Front	Composite Video In (CVBS)	
ELECTRICAL INFORMATION	USA	108-132V
Voltage (V)	120V~	
Frequency (Hz)	60Hz	
Approx. consumption (W)	120W	
Max. consumption (W)	132W	
WEIGHT & DIMENSIONS :		
Weight (incl. Packaging) :	24 kg / 53 lbs	
Weight (excl. Packaging) :	23 kg / 51 lbs	
Visible diagonal / screen size :	20 inch / 50.8 cm	

Specifications and information are subject to change without notice.

PHILIPS LIMITED WARRANTY

90 Days Labor & One (1) Year Parts & Two (2) Years Display

PHILIPS CONSUMER ELECTRONICS warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE: You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If the product is determined to be defective)

LABOR: For a period of ninety (90) days from the date of purchase, Philips will repair or replace the product, at its option, at no charge, or pay the labor charges to any Philips authorized repair facility. After the period of ninety (90) days, Philips will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year from the date of purchase, Philips will supply at no charge, new or rebuilt replacement parts in exchange for defective parts. Philips authorized service centers will provide removal and installation of the part under the specified labor warranty.

DISPLAY: For a period of two (2) years from the date of purchase, Philips will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Philips authorized service centers will provide removal and installation of the parts under the specified labor warranty.

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost associated with packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

TO OBTAIN WARRANTY SERVICE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

TO OBTAIN WARRANTY SERVICE IN CANADA...

1-800-611-6162 (French Speaking)
1-888-PHILIPS (1-888-744-5477) - (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the PHILIPS partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 27400)

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